

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method, in a communications network, of controlling ~~in a communications network (10)~~ an object transfer from a first component ~~(20)~~ via an intermediate component ~~(30)~~ to a second component ~~(40)~~ which is remote from the first component ~~(20)~~, wherein the object transfer is based on a plurality of object requests relating to objects referred to in one or more codes to be processed by the second ~~(40)~~ or another component of the communications network ~~(10)~~, the intermediate component performing the steps of:

 sending an object request to the first component ~~(20)~~;

 receiving the requested object from the first component ~~(20)~~;

 assessing ~~and/or~~ updating a priority of the requested object, wherein an initial priority has been assigned to the requested object on the basis of an analysis of at least one of the object request and the code that refers to the requested object; and

 in dependence of the priority of the requested object, delaying the requested object or forwarding the requested object to the second component ~~(40)~~.

2. (Currently Amended) The method of claim 1, wherein the delaying is performed such that the order in which the objects are received from the first component ~~(20)~~ differs from the order in which the objects are forwarded to the second component ~~(40)~~.

3. (Currently Amended) The method of claim 1 ~~or 2~~, wherein the object request is received from the second component ~~(40)~~ or generated by the intermediate component ~~(30)~~.

4. (Currently Amended) The method of claim 1 ~~one of claims 1 to 3~~, wherein delaying of the requested object includes at least one of instructing the second component ~~(20)~~ to repeat the object request, suspending a connection to the second component ~~(40)~~ via which the requested object is to be forwarded, and informing the second component ~~(40)~~ that the requested object will automatically be forwarded at a later point in time.

5. (Currently Amended) The method of claim 3, wherein instructing the second component ~~(40)~~ to repeat the object request includes:
assigning a specific attribute to the object to be delayed;
informing the second component ~~(40)~~ of the attribute;
receiving a reference to the attribute from the second component ~~(40)~~; and
upon receipt of the reference to the attribute, sending the delayed object to the second component ~~(40)~~ or further delaying the delayed object.

6. (Currently Amended) The method of claim 1 ~~one of one of claims 1 to 5~~, wherein requested objects are forwarded ~~to the second component (40)~~ via a plurality of connections ~~(50)~~ to the second component ~~(40)~~.

7. (Currently Amended) The method of claim 6, wherein selected ones of the connections ~~(50)~~ to the second component ~~(40)~~ are suspended dependent upon the priorities of the requested objects that were received from the first component ~~(20)~~ and that are to be forwarded via the selected ones of the connections ~~(50)~~.

8. (Currently Amended) The method of claim 6 ~~or 7~~, wherein to each connection a specific share of processing capabilities is dynamically allocated.

9. (Currently Amended) The method of claim 1 ~~one of claims 1 to 8~~, further comprising:
sending a code request to the first ~~(20)~~ or a third component;
receiving the requested code from the first ~~(20)~~ or the third component;

analyzing the received code with respect to references to objects;
assessing the references to objects with the purpose of assigning initial priorities to the objects referred to in the received code.

10. (Currently Amended) The method of claim 1 ~~one of claims 1 to 9~~, wherein upon receipt of a response containing the object requested from the first component ~~(20)~~, the response is evaluated with respect to the received object's priority in order to determine whether or not the initial priority of the received object has to be updated.

11. (Currently Amended) The method of claim 1 ~~one of claims 1 to 10~~, further comprising generating a priority list that contains priority information for individual objects or classes of objects.

12. (Currently Amended) The method of claim 11, further comprising repeatedly assessing the priority list with respect to at least one of updating priority information, ~~and~~ deleting objects or classes of objects[,] [or] and corresponding information, from the priority list.

13. (Currently Amended) The method of claim 1 ~~one of claims 1 to 12~~, wherein the steps are performed by a proxy component situated on the first component, on the second component or configured as a separate hardware component ~~(30)~~ of the communications network.

14. (Currently Amended) A method of delaying in a communications network ~~(40)~~ an object transfer from a first component ~~(20)~~ via an intermediate component ~~(30)~~ to a second component, ~~(40)~~ which is remote from the first component ~~(20)~~, wherein the object transfer is based on a plurality of object requests relating to objects referred to in one or more codes to be processed by the second ~~(40)~~ or another component of the communications network, the intermediate component ~~(30)~~ performing the steps of:
assigning a specific attribute to an object which is to be delayed;
informing the second component ~~(40)~~ about the attribute;

receiving a reference to the attribute from the second component ~~(40)~~; and
upon receipt of the reference to the attribute, sending the delayed object to which the attribute has been assigned to the second component ~~(40)~~ or further delaying the delayed object.

15. (Currently Amended) The method of claim 14, wherein the object is sent to the second component ~~(40)~~ in accordance with a pushing scheme or in response to an object request received from the second component ~~(40)~~.

16. (Currently Amended) The method of claim 15 wherein the second component ~~(40)~~ is informed about the attribute in context with an instruction to repeat the object request and wherein the reference to the attribute is received from the second component ~~(40)~~ in context with a repeated object request.

17. (Currently Amended) A computer program product in a computer usable medium for controlling an object transfer from a first component to a second component via an intermediate component, the computer program product comprising:
instructions for sending an object request to the first component;
instructions for receiving the requested object from the first component;
instructions for assessing and updating a priority of the requested object, wherein an initial priority has been assigned to the requested object on the basis of an analysis of at least one of the object request and the code that refers to the requested object;
and
in dependence of the priority of the requested object, instructions for delaying the requested object or forwarding the requested object to the second component.
~~comprising program code portions for performing the steps of claims 1 to 16 when the computer program product is run on a computer system (30).~~

18. (Currently Amended) The computer program product of claim 17, stored on a computer readable ~~recording~~ medium, further comprising;
assigning a specific attribute to an object which is to be delayed;

informing the second component about the attribute;
receiving a reference to the attribute from the second component; and
upon receipt of the reference to the attribute, sending the delayed object to which
the attribute has been assigned to the second component or further delaying the
delayed object.

19. (Currently Amended) An intermediate component ~~(30)~~ for controlling in a communications network ~~(10)~~ an object transfer from a first component ~~(20)~~ via the intermediate component ~~(30)~~ to a second component ~~(40)~~ which is remote from the first component ~~(20)~~, wherein the object transfer is based on a plurality of object requests relating to objects referred to in one or more codes to be processed by the second ~~or another~~ component of the communications network, the intermediate component ~~(30)~~ comprising:

a communications interface ~~(32)~~ for sending an object request to the first component ~~(20)~~ and for receiving the requested object from the first component ~~(20)~~; :

a processing unit ~~(34)~~ for assessing ~~and/or~~ updating a priority of the requested object, wherein an initial priority has been assigned to the requested object on the basis of an analysis of at least one of the object request and the code that refers to the requested object, and

wherein the processing unit ~~(34)~~ in dependence of the priority of the requested object delays the requested object or controls the communications interface ~~(32)~~ to forward the requested object to the second component ~~(40)~~.

20. (Currently Amended) An intermediate component ~~(30)~~ for delaying in a communications network ~~(10)~~ an object transfer from a first component ~~(20)~~ via the intermediate component ~~(30)~~ to a second component ~~(10)~~ which is remote from the first component ~~(20)~~, wherein the object transfer is based on a plurality of object requests relating to objects referred to in one or more codes to be processed by the second ~~or another~~ component of the communication network, the intermediate component ~~(30)~~ comprising:

a processing unit ~~(34)~~ for assigning a specific attribute to an object which is to be delayed, and

a communications interface ~~(32)~~ for informing the second component ~~(40)~~ about the attribute, for receiving a reference to the attribute from the second component ~~(40)~~ and, upon receipt of the reference to the attribute, for sending the delayed object to which the attribute has been assigned to the second component ~~(40)~~ or further delaying the delayed object.

21. (Currently Amended) The intermediate component of claim ~~19~~ or 20, configured as a proxy server ~~(30)~~.

22. (Currently Amended) A network system ~~(10)~~ comprising
an intermediate component for controlling an object transfer from
a first component via the intermediate component to a second component which
is remote from the first component, wherein the object transfer is based on a plurality of
object requests relating to objects referred to in one or more codes to be processed by
the second component of the communication network, the intermediate component
comprising:

a processing unit ~~(34)~~ for assigning a specific attribute to an object which
is to be delayed and

a communications interface ~~(32)~~ for informing the second component ~~(40)~~
about the attribute, for receiving a reference to the attribute from the second
component ~~(40)~~ and, upon receipt of the reference to the attribute, for sending
the delayed object to which the attribute has been assigned to the second
component ~~(40)~~ or further delaying the delayed object. ~~at least one of the~~
components ~~(30)~~ of claims ~~19~~ to ~~21~~.

23. (Currently Amended) The network system of claim 22, further comprising
a first link ~~(12)~~ between the intermediate component ~~(30)~~ and the first component ~~(20)~~
and a second link ~~(14)~~ between the intermediate component ~~(30)~~ and the second

component ~~(40)~~, wherein the first link ~~(12)~~ and the second link ~~(14)~~ have different transfer rates.

24. (Currently Amended) The network system of claim 22 ~~or 23~~, comprising a second component ~~(40)~~ in the form of a mobile terminal.